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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/462,171	03/27/2000	EREZ BRAUN	104946	4753
25944 75	90 07/24/2002			
OLIFF & BERRIDGE, PLC			EXAMINER	
P.O. BOX 1992 ALEXANDRIA			JACKSON JR, JEROME	
			ART UNIT	PAPER NUMBER
			2815	
			DATE MAILED: 07/24/2002	!

Please find below and/or attached an Office communication concerning this application or proceeding.

		(m)					
	Application No.	Applicant(s)					
. Office Action Summer	09/462,171	BRAUN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jerome Jackson Jr.	2815					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).					
Status 1)⊠ Responsive to communication(s) filed on <u>28 /</u>	fay 2002						
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-17 and 19-32</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-17 and 19-32</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers	<b>.</b>						
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
<ul> <li>a) ☐ The translation of the foreign language pro</li> <li>15)☐ Acknowledgment is made of a claim for domesti</li> </ul>	* *						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)					
S. Patent and Trademark Office							

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-17,19-32 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The previous rejection still applies. There is no enablement for p-n junction devices. As stated previously, applicant should submit evidence of a working p-n junction device.

The declaration under 37 CFR 1.132 filed 28 May 2002 is insufficient to overcome the rejection of claims 1-17,19-32 based upon 35 USC 112 as set forth in the last Office action because: there is no evidence of a working p-n junction device. The declaration states that silver ions were coated on a DNA strand to form a silver wire. This is not evidence of a working p-n junction device. It shows a silver wire on a DNA backbone. There is not even any evidence of either p-type or n-type material, much less any working p-n junction device.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-17,19-32 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hollenberg '071.

Hollenberg teaches column 8 line 60-column 9 line 30 fabrication of wires or devices such as MOSFETs using DNA templates. Note that conductive material is

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deposited along the DNA template which is attached to a substrate. The resulting structure is an "electronic component". Applicant's claims are anticipated or obvious over Hollenberg.

Applicant's arguments filed 5/28/02 have been fully considered but they are not persuasive. Arguments regarding the enablement rejection are not convincing of patentability because mere statement that the specification recites electron surplus polymers as n-type and electron deficient polymer as p-type is not proof of a working device. The declaration does not show a working p-n junction device and applicant's arguments do not prove one either. There is no evidence in any literature that these p-n junction devices with DNA templates have been built and work as p-n junction devices. Applicant's published paper was similar to his declaration in that only a conducting silver wire with a DNA backbone was shown. No transistor behavior was shown.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 703 308 4937. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308 7722 for regular communications and 703 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

JEROME JACKSON